



*DFW*  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kim et al.  
Appl. No. : 10/699,226  
Filed : October 31, 2003  
For : PLASMA ENHANCED ALD OF  
TANTALUM NITRIDE AND  
BILAYER  
Examiner : Turner, Archene A.  
Group Art Unit : 1775

CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

June 9, 2005

*(Signature)*  
(Date)

James B. Bear, Reg. No. 25,221

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) Statement Regarding Third-Party Submission in Accordance with 37 C.F.R. §1.99.
- (X) Certificate of Service.
- (X) Form PTO/SB/08 listing four (4) references.
- (X) Full copies of each of the four (4) references listed on form PTO/SB/08.
- (X) A check in the amount of \$180.00, *see* 37 CFR § 1.17(p), to cover the submission fee.
- (X) Return prepaid postcard.

*(Signature)*  
James B. Bear  
Registration No. 25,221  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404



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P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATION OF SERVICE IN ACCORDANCE WITH  
37 C.F.R. § 1.248(b) (PROOF OF SERVICE)**

Dear Sir:

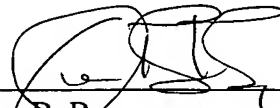
I certify that the following enclosed documents were served upon David Aker, attorney for the above named applicant in the above-named matter:

- (X) Transmittal letter.
- (X) Statement regarding third-party submission in accordance with 37 C.F.R. § 1.99.
- (X) Form PTO/SB/08 listing four (4) references.
- (X) Full copies of the four references listed on form PTO/SB/08.

The documents were served in accordance with 37 C.F.R. § 1.248(a)(4) by mailing them on June 8, 2005 via first class mail addressed to:

David Aker  
23 Southern Road  
Hartsdale, NY 10530

Dated: 6/9/05

Signed:   
James B. Bear  
Registration No. 25,221



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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

STATEMENT REGARDING THIRD-PARTY SUBMISSION IN  
ACCORDANCE WITH 37 C.F.R. § 1.99

Dear Sir:

This submission is a third-party submission of patents and publications in the above-named pending published application in accordance with 37 C.F.R. § 1.99. Enclosed is the fee set forth in 37 C.F.R. § 1.17(p) for this submission. This submission is being made within two months of publication of the above-named application. A certification of service is enclosed as required by 37 C.F.R. § 1.248(b).

Enclosed is form PTO/SB/08 listing four (4) references. Full copies of the four references listed on form PTO/SB/08 are also included.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

06/13/2005 ZJUHA1 00000049 10699226

01 FC:1806

180.00 DP

Respectfully submitted,

Dated: 6/9/05

By: [Signature]

James B. Bear  
Registration No. 25,221

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# INFORMATION DISCLOSURE STATEMENT BY THIRD-PARTY

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/699,226
Filing Date	October 31, 2003
First Named Inventor	Kim
Art Unit	1775
Examiner	Turner, Archene A.
Attorney Docket No.	

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		2004/0009307 A1	01-15-2004	Koh et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
		Atomic Layer Deposition (ALD) 2002 American Vacuum Society Topical Conference, August 19-21, 2002, Hanyang University, Korea, Program Schedule and Content.	
		H. KIM & S.M. ROSSNAGEL, "The Growth and Properties of PE-ALD Ta and TaN Thin Films" (Invited lecture), Atomic Layer Deposition (ALD) 2002 American Vacuum Society Topical Conference, August 19-21, 2002, Hanyang University, Korea, Abstract.	
		H. KIM & S.M. ROSSNAGEL, "The Growth and Properties of PE-ALD Ta and TaN Thin Films" (Invited lecture), Atomic Layer Deposition (ALD) 2002 American Vacuum Society Topical Conference, August 19-21, 2002, Hanyang University, Korea, Presentation Slides.	

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Examiner Signature	Date Considered
<p><b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.